Commonwealth of Kentucky Energy and Environment Cabinet Department for Environmental Protection

DIVISION FOR AIR QUALITY

Source Name

DEP7007J

VOLATILE LIQUID STORAGE

I.D. #

| CE CELON A | CENEDAI | | TD • | | | | |
|---|---|---|--|---|---|---|--|
| SECTION A | GENERAI | L Emissioi | n Point #: _ | | | | |
| installing any equ | ipment, approval fr | s, drawings, and other po om the Fire Marshall's h a Material Safety Data | Office shall | be obtained. | If more sp | ace is requir | |
| | | s received (Check or, if ad for each product): | more than | one mode is | used, specif | y the percen | t volatile liquid |
| (a) Tank Tr | uck 🗌 % | 6 (b)Trailer 🗌 | | (c) Rai | ilcar 🗌 | | |
| (d) Pipeline | % | (e) Marine Tank | | _ % | (f) Barge | | 0/₀ |
| (g) Other (s | specify) | | | | | | |
| | tgoing products tra out by each mode an | insported (Check one or ad for each product: | ; if more th | an one mode | is used, spe | cify the perc | cent volatile liquid |
| (a) Tank | Truck 🗌 % | ‰ (b)Trailer □ | % | (c) Rai | ilcar 🗌 | % | |
| (d) Pipel | ine 🗌 % (e) |) Marine Tank 🔲 | | (f) Bar | ·ge 🗌 | | |
| (g) Othe | er (specify) | | | | | | |
| PRODUCT DAT | 'Δ• | | | | | | |
| | 11. | | | | | | |
| Product Type | Liquid Density | Liquid Molecular | Ma | ximum | Mi | nimum | Maximum Annual |
| Product Type (a) | | Liquid Molecular Weight | Temp | Vapor Press (PSI) | Temp (°F) | Vapor Press (PSI) | Maximum Annual — Throughput (gals) |
| * - | Liquid Density | | Temp | Vapor Press | Temp | Vapor Press | Throughput |
| * - | Liquid Density | | Temp | Vapor Press | Temp | Vapor Press | Throughput |
| * - | Liquid Density | | Temp | Vapor Press | Temp | Vapor Press | Throughput |
| * - | Liquid Density | | Temp | Vapor Press | Temp | Vapor Press | Throughput |
| 3) (a) List liqu Attach a (b) The col | Liquid Density (lb/gal) id stored (premium a Material Safety D lor of the tank incre | Weight n gasoline, regular gasol ata Sheet (MSDS) for e | Temp (°F) | Vapor Press (PSI) ed gasoline, t stored. | Temp (°F) | Vapor Press (PSI) | Throughput (gals) |
| 3) (a) List liqu Attach a (b) The col for alu | Liquid Density (lb/gal) id stored (premium a Material Safety D or of the tank incre minum (silver) pair | Weight I gasoline, regular gasolata Sheet (MSDS) for e | Temp (°F) | Vapor Press (PSI) ed gasoline, t stored. n outdoor tar for white pa | Temp (°F) acetone, isonik above anint. | Vapor Press (PSI) | hol, Xylene, etc.) |
| 3) (a) List liqu Attach a (b) The col for alu 4) If gasoline i C. Go to Se | id stored (premium a Material Safety D for of the tank incre minum (silver) pair s not handled, or if | n gasoline, regular gasol ata Sheet (MSDS) for e eases the storage tempe nt, 3.5° F for black pain the outgoing product is | Temp (°F) line, unlead ach product rature of art, and 0° F is shipped er | ed gasoline, t stored. n outdoor tar for white partirely by ba | acetone, isonik above an int. | Vapor Press (PSI) propyl alco | hol, Xylene, etc.) erature by 2.5° F MIT Sections B and |
| 3) (a) List liqu Attach a (b) The col for alu 4) If gasoline i C. Go to Se 5) If incoming | id stored (premium a Material Safety D for of the tank incre minum (silver) pair s not handled, or if ection D. product is received | weight a gasoline, regular gasol ata Sheet (MSDS) for e eases the storage temper ata the outgoing product is by pipeline, barge, or | Temp (°F) line, unlead ach product rature of art, and 0° F is shipped er | ed gasoline, t stored. n outdoor tar for white partirely by ba | acetone, isonik above an int. | Vapor Press (PSI) propyl alco | hol, Xylene, etc.) erature by 2.5° F MIT Sections B and |
| 3) (a) List liqu Attach a (b) The col for alu 4) If gasoline i C. Go to Se 5) If incoming Omit Sectio 6) If the incom | id stored (premium a Material Safety D for of the tank incre minum (silver) pair s not handled, or if ection D. product is received in B. Complete Sec | n gasoline, regular gasol ata Sheet (MSDS) for e eases the storage tempe at, 3.5° F for black pain the outgoing product is I by pipeline, barge, or tions C and D only. ived by tank truck, trai | Temp (°F) line, unlead ach produc rature of ar at, and 0° F s shipped er marine tan | ed gasoline, t stored. a outdoor tar for white partirely by ba | Temp (°F) acetone, isonak above anint. rge or mari | Press (PSI) propyl alcombient temp ne tank, OM | hol, Xylene, etc.) erature by 2.5° F AIT Sections B and E TERMINAL." |

BULK GASOLINE PLANTS ONLY

DEP7007J (Continued)

Section B

| 7) | IS THERE A VAPOR BALANCE SYSTEM (GASOLINE ONLY) FOR: | | |
|----|--|------------|---------------------------------------|
| | (a) Filling storage tanks from transport vehicle tanks | | |
| | (b) Filling transport vehicle tanks from storage tanks | | |
| 8) | FOR LOADING GASOLINE INTO TRANSPORT VEHICLE TANKS, IS THERE A: | | |
| | (a) Submerged fill tube; or, | | |
| | (b) bottom-fill | | |
| 9) | FOR VAPOR BALANCE SYSTEM: | YES | NO |
| | (a) Are the fittings vapor tight? | | _ |
| | (b) Do the fittings close automatically upon disconnection? | | _ |
| | (c) Is the vapor return line free of restrictions? | _ | _ |
| | (d) Does it have interlocking devices which prevent transfer until the vapor return hose in connected? | | _ |
| | (e) Are transport vehicle tank latches closed at all times during loading? | | _ |
| | (f) Are there any leaks from the pressure/vacuum valve and hatches during loading? | | _ |
| | (g) Is there a pressure relief valve on the storage vessel? (Pressure setting: psig) | | _ |
| | (h) Is there a pressure relief valve on the transport vehicle tanks? (Pressure setting: psig) | _ | _ |
| | (i) Diameter of the liquid fill line: inches, or | cm | |
| | (j) Diameter of the vapor return line: inches, or | cı | m |
| | (Note: The cross sectional area of the vapor return hose must b | e at least | 50% of that of the liquid fill line.) |

For existing sources, if any of the above and other requirements of the applicable regulation are not being met, the deficiencies shall be rectified in an expeditious manner following approval by the Division.

DEP7007J (Continued)

Section C

| 10) | Is there a vapor control system for filling gasoline transport vehicles from storage tanks? | ☐ Yes | □ No |
|-----|---|------------------|--------|
| | (a) Is the system vapor tight? | ☐ Yes | □ No |
| | (b) Are the hatches on the transport vehicles closed at all times except during the installation of the submerged fill lines? | ☐ Yes | □ No |
| 11) | What type of vapor control device is used (check): | | |
| | (a) Incinerator (b) Adsorber (c) Other (specify) | | |
| 12) | For the control device, specify: | | |
| | (a) Diameter of the stack or vent in., or _ cm | | |
| | (b) Height of the stack or vent in., or cm | | |
| | (c) Quantity of gases discharged acfm | | |
| | (d) Temperature of gases discharged °F or °C | | |
| | (e) Concentration of hydrocarbon emissions from the device grains/ft or _ | ma/ | litor |
| | (c) concentration of hydrocan bon emissions from the devicegrams/re of _ | mg/ | iitei |
| | (f) Date installed | mg/ | ntei |
| 13) | · · · · · · · · · · · · · · · · · · · | | |
| 13) | (f) Date installed | | |
| 13) | (f) Date installed | | |
| 13) | (f) Date installed | | |
| 13) | (f) Date installed | are disconnected | d? |
| , | What are the measures taken to prevent liquid spills and evaporation, especially after hoses What are the measures taken to clean up spills and prevent gasoline from entering the sewer | are disconnected | d? |
| , | What are the measures taken to prevent liquid spills and evaporation, especially after hoses What are the measures taken to clean up spills and prevent gasoline from entering the sewer | are disconnected | d? |
| , | What are the measures taken to prevent liquid spills and evaporation, especially after hoses What are the measures taken to clean up spills and prevent gasoline from entering the sewer | are disconnected | d? |

For existing sources, if any of the above or other requirements of the applicable regulations are not being met, the deficiencies shall be rectified in an expeditious manner following approval by the Division.

DEP7007J (Continued)

Section C

| | LOADING RACK(S) ONLY | | | | | | |
|-----|--|--|---|--|--|--|--|
| 15) | Rack(s) No.: Date loading rack | ck constructed, reconstructed, or modified_ | | | | | |
| | No Language No vice | | MM/DD/YY | | | | |
| | No. Lanes/rack No. rise | ers/loading arms per rack | | | | | |
| 16) | 6) Is the loading rack subject to State Regulation 401 KAR 60:005 (40 CFR 60 Subpart XX), Standards of performance for gasoline terminals? Yes No | | | | | | |
| 17) | Is the loading rack subject to State Yes No | Regulation 401 KAR 61:055, Existing loadi | ng facilities at bulk gasoline terminals? | | | | |
| | | ms for all loading racks subject to each of t ne regulation, complete two forms and estim | | | | | |
| | Product Type | Maximum Loaded Gals/Hr | Maximum Loaded Gals/Yr | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Please attach a diagram for the loading of each product type.

^{*}Please provide MSDS sheets for each product type, if not provided under Section A.

Please provide a copy of all emission calculations for the loading rack.

DEP7007J (Continued)

Section C

| 18) Time required to load standard size (8,500/9,000 gallons) tanker (min.): |
|---|
| 19) Barge/Pipeline unloading rate (barrels/hr.); (barrels/yr.) |
| 20) Does the petroleum storage capacity exceed 300,000 barrels? Yes |
| No |
| |
| Maximum Achievable Control Technology (MACT) (Reference 40 CFR 63, Subpart R): |
| Note: The following information needs to be completed once per terminal, provided no changes have been made. If changes have been made to the terminal since any previous submittal, such as addition of new storage tanks, pipeline equipment, etc. please update your terminal information by completing a new form and calculations of potential to emit (PTE). |
| Note: Please provide a copy of all calculations to determine PTE from the terminal. |
| 21. Does the PTE of the terminal equal or exceed 10 tons per year (TPY) for any one hazardous air pollutant (Reference 401 KAR 63:060, Hazardous air pollutants and source categories) or 25 TPY for any combination of hazardous air pollutants? |
| Yes (Reference 40 CFR 63.422 through 63.428(h)(4)(iv), and skip the rest of this section) |
| No (Complete items a-h) |
| a. Does the terminal handle any reformatted or oxygenated gasoline containing methyl tertbutyl ether (MTBE), CF? b. Federally enforceable control efficiency of the vapor processing system used to control emissions from fixed-roof gasoline storage vessels (fraction), CE |
| Note: Please reference Section D, Storage tanks, to determine the values of T _F , T _E , T _{ES} , and T ₁ . |

DEP7007J (Continued)

Section C

| 21c. PIPELINE EQUIPMENT COUNT: | | | | | | |
|--|--|--|--|--|--|--|
| Equipment Type | (Gasoline) COUNT (Other*) | | | | | |
| Valves | | | | | | |
| Pumps | | | | | | |
| Connectors | | | | | | |
| Risers/Loading Arm Valves | | | | | | |
| Open-ended Lines | | | | | | |
| Other | | | | | | |
| *Other: Diesel Fuel, Kerosene, etc. | 1 | | | | | |
| paragraphs (c), (d), and (f) of 40 CF e. Does the loading rack have a vapor Yes, (Reference item #12 No f. Federally enforceable emissions staliter of gasoline loaded), EF g. Do all gasoline cargo tankers have a tight gasoline tank truck, L? h. Calculate emission-screening factor The specific recordkeeping requirements | valid and current certificate to satisfy the test criteria, Method 27, for a vapor- YesNo for bulk gasoline terminals, E_T for nonmajor terminals is determined by the value of E_T : FR 63.420 (c)(1) & (2) and § 63.428 (i) | | | | | |

Section D Please refer to the appropriate regulations for storage vessels (401 KAR 59:050, 60:005 [NSPS], or 61:060) for the requirements. Please refer to AP-42, Liquid storage tank section.

DEP7007J Continued

| Tank ID# | All Stora Pr | oduct St | | Date Installed | Tank Diameter (Feet) | Tank Height or Length (Feet) | Maximum Hourly Filling Rate (Gallons/hr.) | Maximum Annual Throughput (Gallons/Year | Tank Capacity (Gallons) |
|-------------|-----------------------|------------------------|---------------------|-------------------|--|------------------------------------|---|---|---|
| | Fixed Ro | oof Tank | s | | | | | | |
| Part 2: | Fixed Roof Tanks Roof | | | | | | Part 3: Variable Vapor Space Tanks | | |
| ar i | | Roof | | | A \$7 | | | Part 3: Variable Vapor S | Space Tanks |
| Tank ID# | Color ¹ | Roof Type ⁴ | Height ⁴ | Side Color | Average Vapor Space Height ² (Feet) | Horizontal (H) or Vertical (V) | Underground (Yes/No) | Part 3: Variable Vapor S Volume Expansion Capacity ³ (Gallons) | Space Tanks Number of Transfers into the Tank Per Yea |
| | Color ¹ | | | | Space Height ² | | | Volume Expansion Capacity ³ | Number of Transfers |
| | Color ¹ | | | | Space Height ² | | | Volume Expansion Capacity ³ | Number of Transfer |
| | Color ¹ | | | | Space Height ² | | | Volume Expansion Capacity ³ | Number of Transfers |
| | Color ¹ | | | | Space Height ² | | | Volume Expansion Capacity ³ | Number of Transfer |

- (1) White, aluminum (specular, diffuse), light gray, medium gray, slack, etc.
- (2) The vapor space in a cone roof is equal in volume to a cylinder which has the same base diameter as the cone, and is one third (1/3) the height of the cone.
- (3) Volume of the variable vapor space.
- (4) Dome, flat, or cone. Include dome or cone height (ft.). For dome roofs, specify radius of roof; for cone roofs, specify slope of roof. If dome radius is not known, assume dome roof radius = shell diameter.

Section D Please refer to the appropriate regulation for storage vessels (401 KAR 59:050, 60:005 [NSPS], or 61:060) for the requirements. Please refer to AP-42, Liquid storage tank section.

DEP7007J Continued

| Tank ID# | nternal Floating Ro Bolted or Welded Deck | Type of Primary Seal ⁴ | | Presence of Secondary Seal | Number of Support Columns | Column Cross Sectional Dimensions | Length of Deck Seam (Feet) ⁵ |
|-------------|--|-------------------------------------|------------------------|-------------------------------|---------------------------------|---|--|
| | | | | | | | |
| | | | | | | | |
| Part 3: | Internal Floating R | oof Tanks | | | | | Number of |
| Tank ID# | | Types of Deck Fittings ⁶ | Number of Each Type | Design | ı of Each Deck Fit | ting ⁷ | Each Design |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

⁽⁴⁾ Vapor-mounted or liquid-mounted seal, etc.

⁽⁵⁾ Indicate continuous or panel deck construction.

⁽⁶⁾ Access hatch, automatic gauge float well, column well, ladder well, roof leg, hanger well, sample pipe, sample well, stub drain, or vacuum breaker, etc.

⁽⁷⁾ Diameter sizes; bolted or gasket covers; built-up or pipes column well; sliding cover or fabric seal; adjustable or fixed roof leg/hanger well; etc.

Section D Please refer to the appropriate regulation for storage vessels (401 KAR 59:050, 60:005 [NSPS], or 61:060) for the requirements. Please refer to AP-42, Liquid storage tank section.

DEP7007J Continued

| Part 4 Ex | ternal Floati | ng Roof Tanks | | | |
|-------------|---------------|--------------------------------------|-----------|---|-------------------------|
| Tank | Riveted | Type of Primary Seal ⁸ | | Type of Secondary Seal ⁹ | Shell |
| ID# | or Welded | | | | Condition ¹⁰ |
| | Deck | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Part 4: E | External Floa | ting Roof Tanks | | | |
| | | | | | Number of |
| Tank ID# | | Types of Deck Fittings ¹¹ | Number of | Design of Each Deck Fitting ¹² | Each Design |
| 1D# | | | Each Type | Design of Each Deck Fitting | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

⁽⁸⁾ Vapor-mounted, liquid-mounted, or mechanical-shoe seal, etc.

⁽⁹⁾ Shoe-mounted, rim-mounted, or with weather shield, etc.

⁽¹⁰⁾ Light rust, dense rust, or gunite lined.

⁽¹¹⁾ Access hatch; guide-pole, gauge-hatch, gauge-float, or sample well; vacuum breaker; roof drain; roof leg; rim vent; etc.

⁽¹²⁾ Diameter sizes; bolted, gaskets, and/or sliding cover; unslotted or slotted guide-pole well; adjustable or fixed roof leg; etc.